



United States  
Department of  
Agriculture

Forest  
Service

Northeastern Area  
State & Private  
Forestry

130 Canfield Street  
Morgantown, WV 26505-3101

File Code: 3410  
Date: July 2, 2001

Mr. Glenn Carowan, Refuge Manager  
Chesapeake Marshlands National Wildlife Refuge Complex  
USDI Fish and Wildlife Service  
Route 1, Box 121  
Cambridge, MD 21613

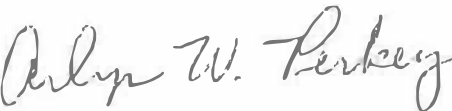
Dear Mr. Carowan:

On June 19, 2001, Rod Whiteman of my staff conducted an aerial survey for gypsy moth-caused tree defoliation at the Chesapeake Marshlands National Wildlife Refuge Complex. Approximately 19 acres of moderate defoliation (31-60 percent) were detected at the Refuge (Figure 1.) An additional 1,023 acres of moderate defoliation and 274 acres of heavy defoliation were detected on adjacent lands. The 2001 gypsy moth suppression project provided foliage protection as no defoliation was detected within the 1,713 acre area treated with *Bacillus thuringiensis* variety *kurstaki* (*B.t.k.*).

Rod will coordinate the scheduling of egg mass surveys with Tom Eagle during fall or early winter.

Please contact Rod at (304) 285-1555 if you have any questions regarding this aerial survey letter.

Sincerely,

*for* 

JOHN W. HAZEL  
Field Representative  
Morgantown Field Office

Enclosure

cc: Allen Carter, Regional Forester, USDI F&WS  
Robert Tichenor, MDA  
Steve Tilley, MDA  
Noel Schneeberger, AO



Figure 1 Results of the gypsy moth defoliation survey at the Chesapeake Marshlands NWR Complex on June 19, 2001, along with the 2001 gypsy moth treatment blocks.

